

EXHIBIT 6

INDEX OF SUBMITTED MEASURED DATA

This exhibit contains the measured data for this equipment as follows:

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- 6B-2 –153.0125 MHz, 25 kHz Channel Spacing (Not for FCC review)
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- 6I-1 – 153.0125 MHz, 12.5 kHz Channel Spacing – Transmitter On
- 6I-2 – 153.0125 MHz, 12.5 kHz Channel Spacing – Transmitter Off
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- 6I-4 – 153.0125 MHz, 25 kHz Channel Spacing – Transmitter Off (Not for FCC review)

** Please note that the above data were taken following the procedures and limits outlined in TIA 603-D, RSS 119 and 182 during the month of September 2014. See Table 2 in Ex07_test procedures

Radio model tested: H84KDH9PW7AN (MUD3277)

Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 80, 90 and RSS 119 and 182.

EXHIBIT 6A

RF Conducted Output Power:

Frequency= 138.0125 MHz (Not for FCC review):

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	1.03 Amps
Output RF power	5.90 Watts
DC Voltage	7.50 Volts
DC Current	1.95 Amps

Frequency= 153.0125 MHz:

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	1.00 Amps
Output RF power	5.90 Watts
DC Voltage	7.50 Volts
DC Current	1.93 Amps

Frequency= 157.7700 MHz (Part 80):

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	1.00 Amps
Output RF power	5.90 Watts
DC Voltage	7.50 Volts
DC Current	1.92 Amps

Frequency= 162.0125 MHz:

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	1.01 Amps
Output RF power	5.90 Watts
DC Voltage	7.50 Volts
DC Current	1.93 Amps

Frequency= 173.0125 MHz:

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	1.01 Amps
Output RF power	5.60 Watts
DC Voltage	7.50 Volts
DC Current	1.96 Amps

EXHIBIT 6B

Transmit Audio Frequency Response

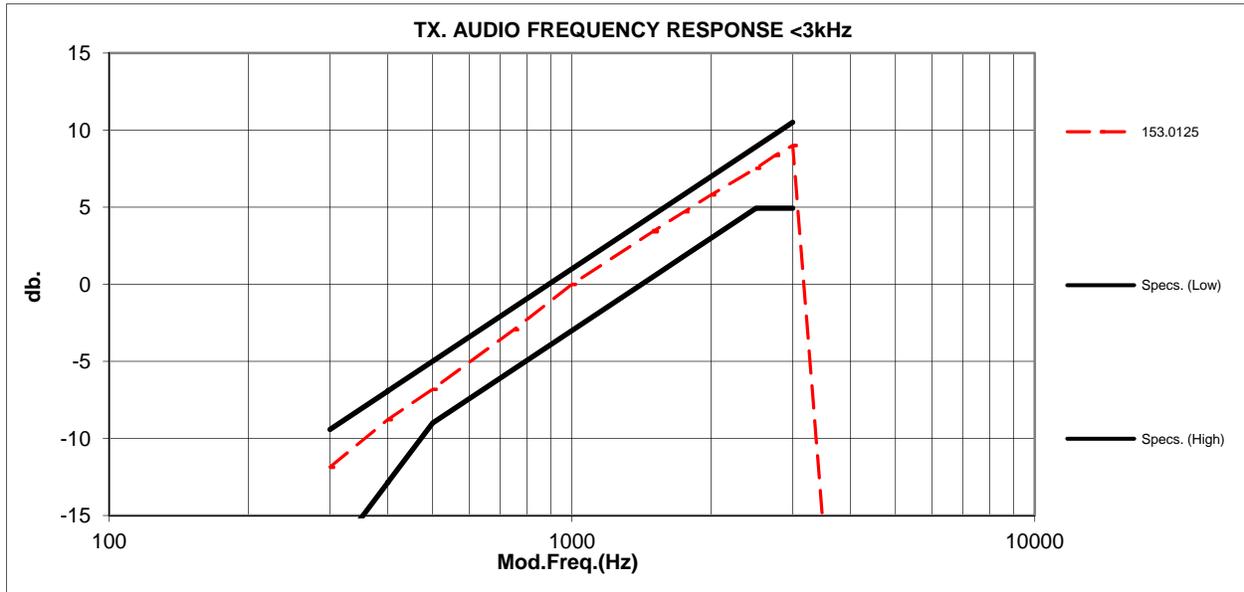


Figure 6B-1: 12.5 kHz Channel Spacing 153.0125 MHz, Transmit Audio Frequency Response

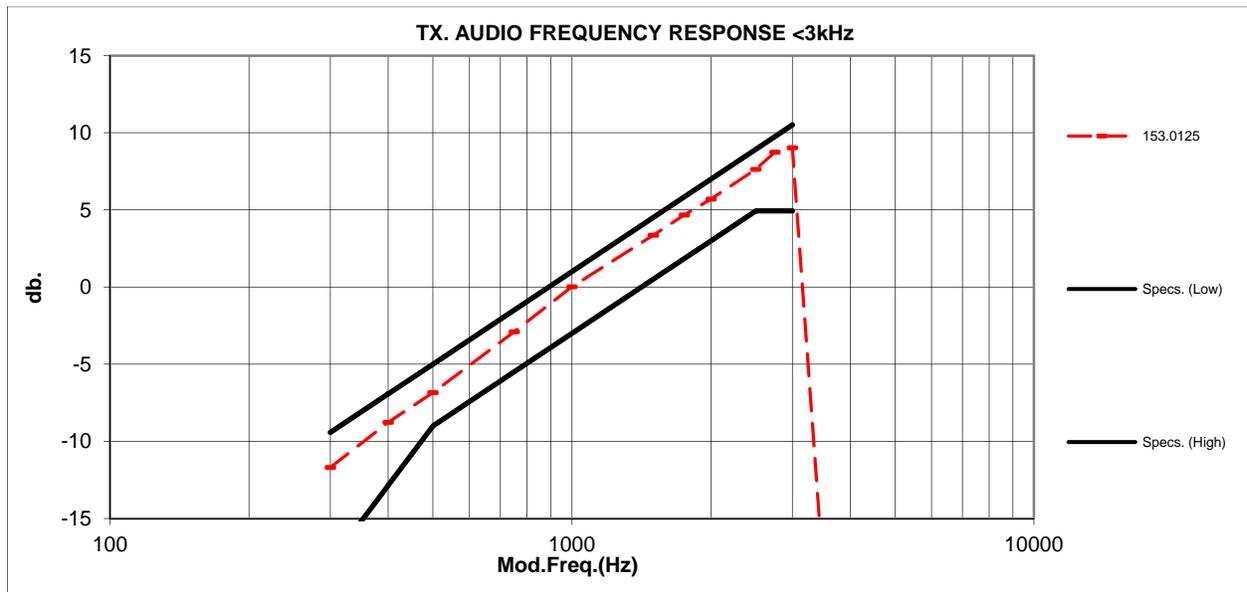


Figure 6B-2: 25 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Frequency Response (Not for FCC review)

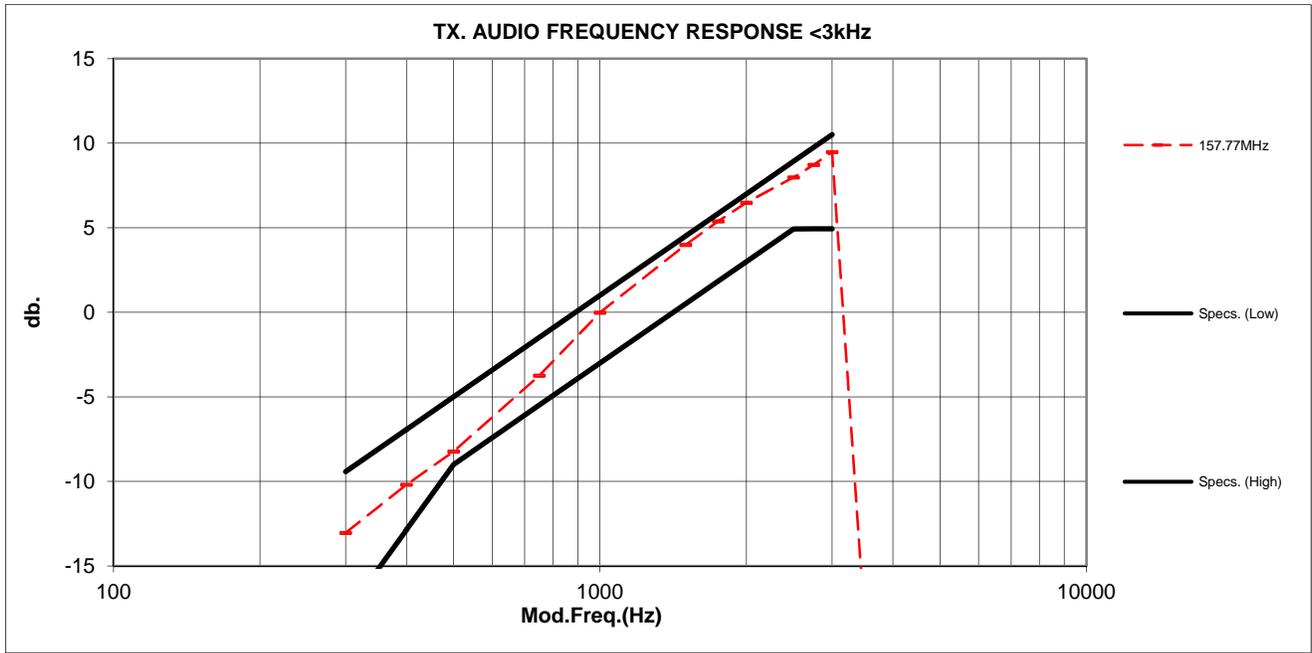


Figure 6B-3: 25kHz Channel Spacing 157.7700 MHz, Transmit Audio Frequency Response (Part 80)

EXHIBIT 6C

Transmit Audio Low Pass Filter Response

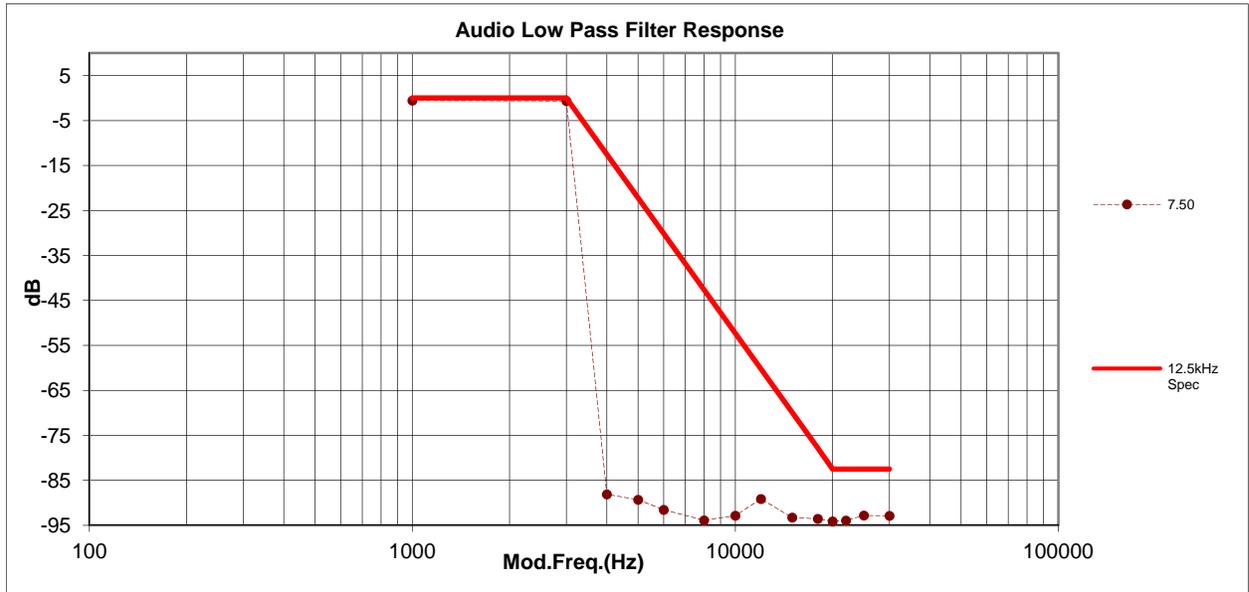


Figure 6C-1: 12.5 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Low Pass Filter Response

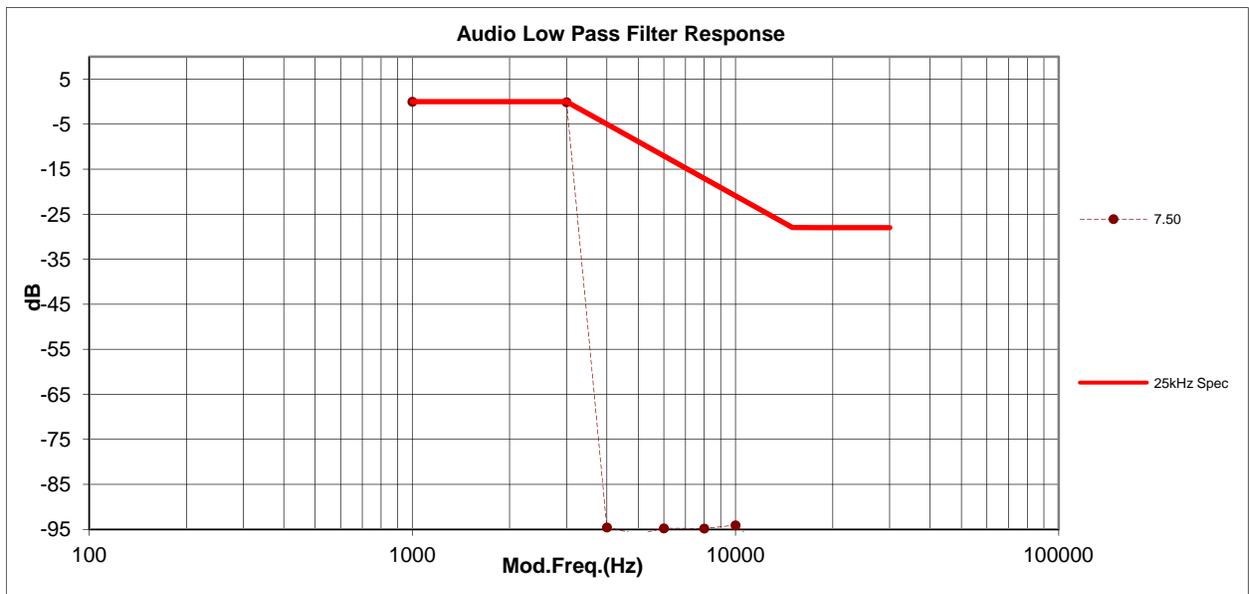


Figure 6C-2: 25 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Low Pass Filter Response (Not for FCC review)

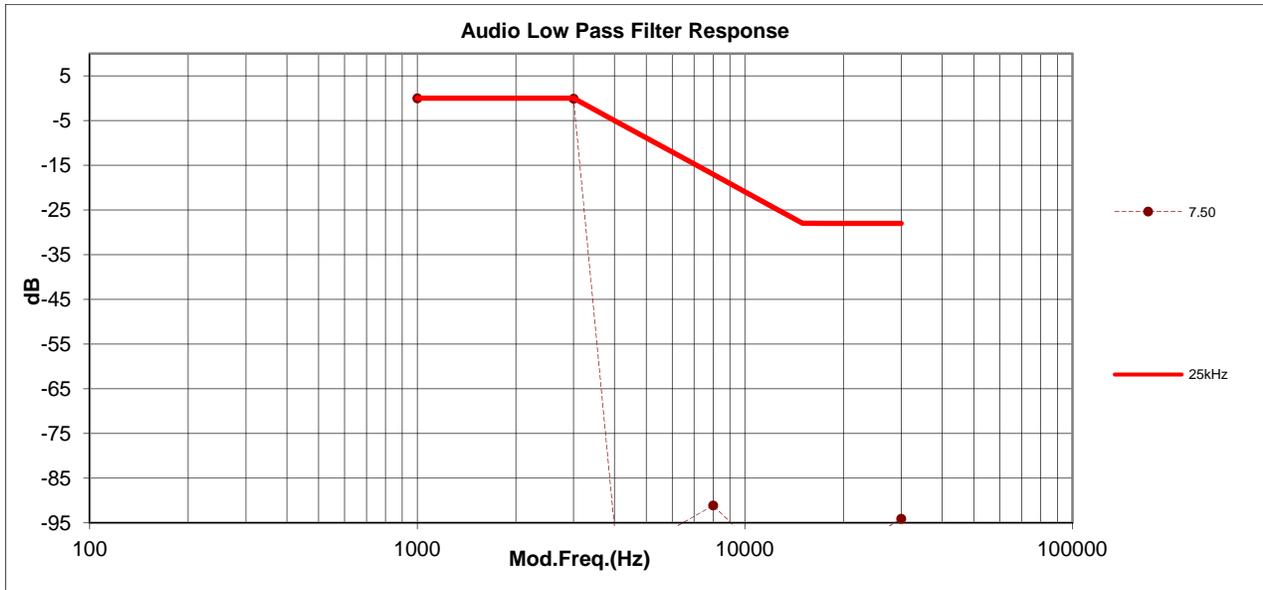


Figure 6C-3: 25 kHz Channel Spacing, 157.7700 MHz, Transmit Audio Low Pass Filter Response (Part 80)

EXHIBIT 6D

Modulation Limiting

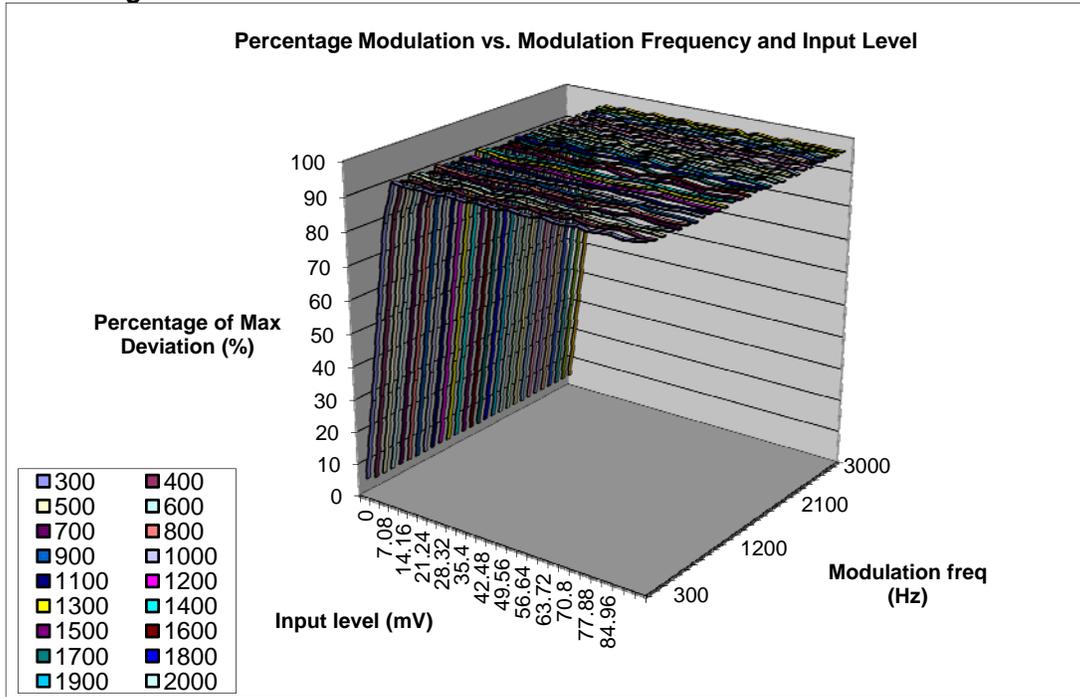


Figure 6D-1: 12.5 kHz Channel Spacing, 153.0125 MHz, Modulation Limiting

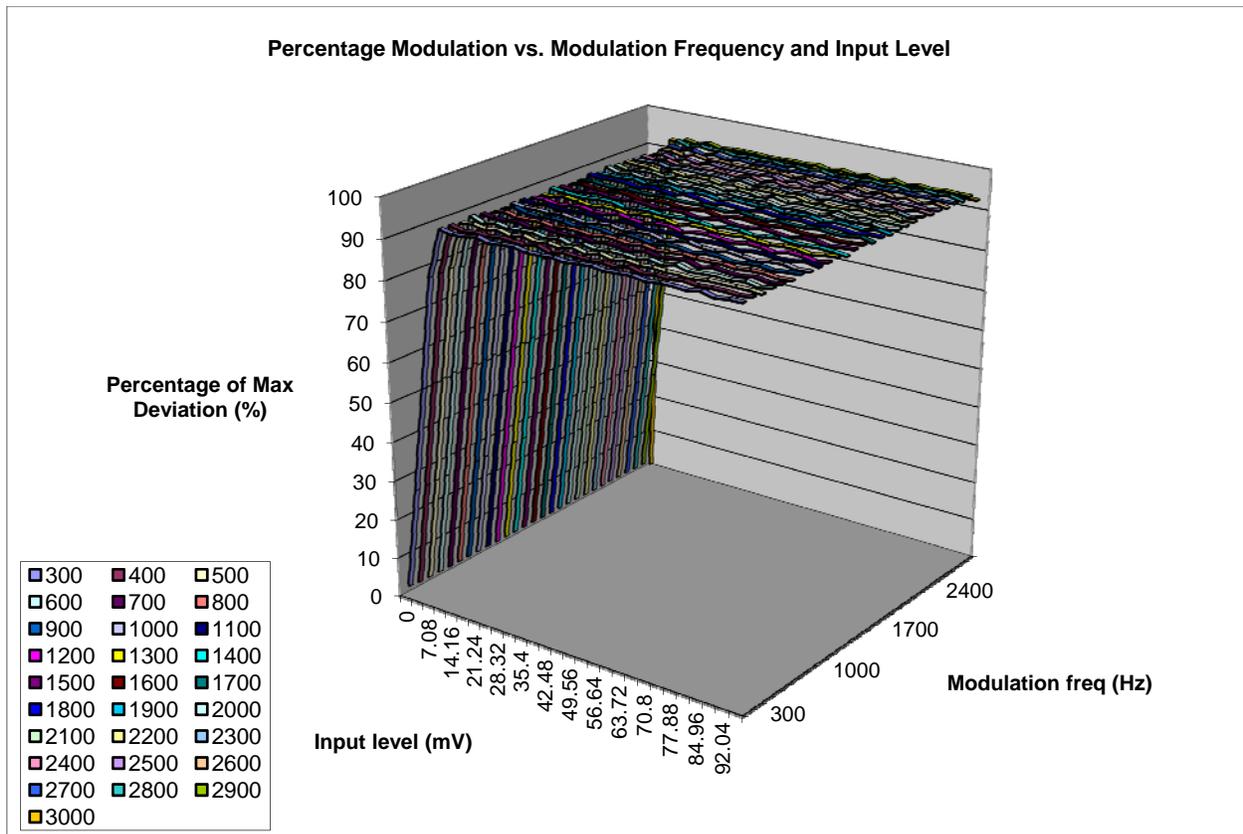


Figure 6D-2: 25 kHz Channel Spacing, 153.0125 MHz, Modulation Limiting (Not for FCC review)

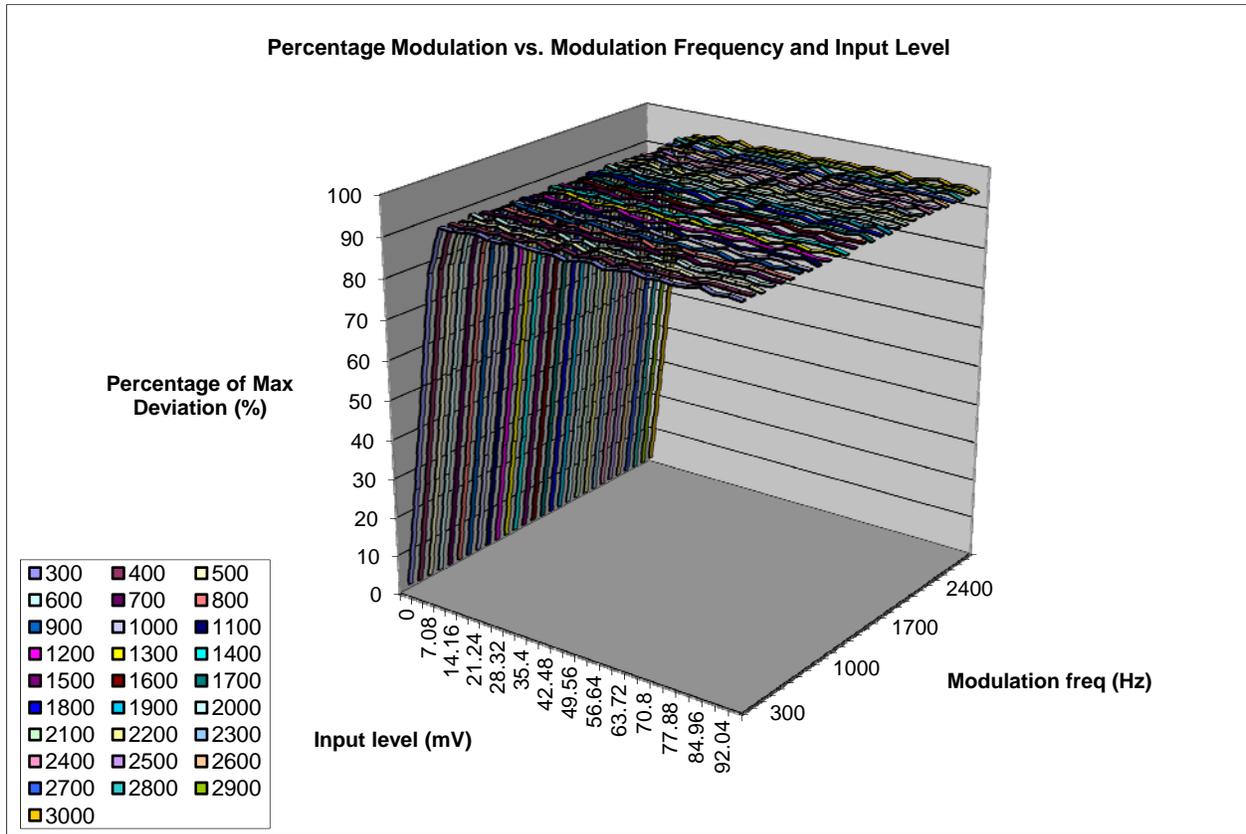


Figure 6D-3: 25 kHz Channel Spacing, 157.77 MHz, Modulation Limiting (Part 80)

EXHIBIT 6E**BANDWIDTH CALCULATIONS:**

Carson's Rule for FM modulation is utilized to compute the bandwidth shown in the FCC emission designator. Carson's Rule is:

$$BW = 2 * (M + D) \quad \text{where: } BW = \text{Bandwidth}$$

M= Maximum modulating frequency
D = Deviation

EXHIBIT 6E-1**Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):**

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \Rightarrow 11K0$$

F3E portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

EXHIBIT 6E-2**Standard Audio Modulation (25 kHz Channelization, Analog Voice) (Part 80 and IC):**

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \Rightarrow 16K0$$

F3E portion of the designator indicates voice.

Therefore, the entire designator for 25 kHz channelization analog voice is 16K0F3E.

EXHIBIT 6E-3**Digital (12.5 kHz Channelization, Digital Data):**

Emission Designator 8K10F1D

The 99% energy rule (title 47CFR 2.1049 (h)) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA 102.CAAB Section 3.2.5. The emission mask was obtained from 47CFR 90.210(d).

F1D portion of the designator indicates digital data.

Therefore, the entire designator for 12.5 kHz channelization digital data is 8K10F1D.

EXHIBIT 6E-4**Digital (12.5 kHz Channelization, Digital Voice):**

Emission Designator 8K10F1E

The 99% energy rule (title 47CFR 2.1049 (h)) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA 102.CAAB Section 3.2.5. The emission mask was obtained from 47CFR 90.210(d).

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E.

EXHIBIT 6E-5

Digital (12.5 kHz Channelization, Digital TDMA):

Emission Designator 8K10F1W

The 99% energy rule (title 47CFR 2.1049 (h)) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA 102.CAAB Section 3.2.5. The emission mask was obtained from 47CFR 90.210(d).

F1W portion of the designator indicates digital TDMA.

Therefore, the entire designator for 12.5 kHz channelization digital TDMA is 8K10F1W.

Conducted Antenna Occupied Bandwidth

Spectrum Analyzer setting as below:
 RBW = 150 Hz, VBW = 15 kHz, Span = 40 kHz

Description	Occupied Bandwidth Power (99%)
Carrier, 2500Hz Audio only, 12.5 kHz channel, 11K0F3E	9.970kHz
Carrier, 2500 Hz Audio only, 25 kHz channel, 16K0F3E	14.989kHz
Carrier, O.153 test pattern, 12.5kHz channel, 8K10F1D, 8K10F1E, 8K10F1W	7.422kHz
Carrier, CCITT V.52 test pattern, 12.5kHz channel, 8K10F1D, 8K10F1E, 8K10F1W	7.786kHz

Occupied Bandwidth Data

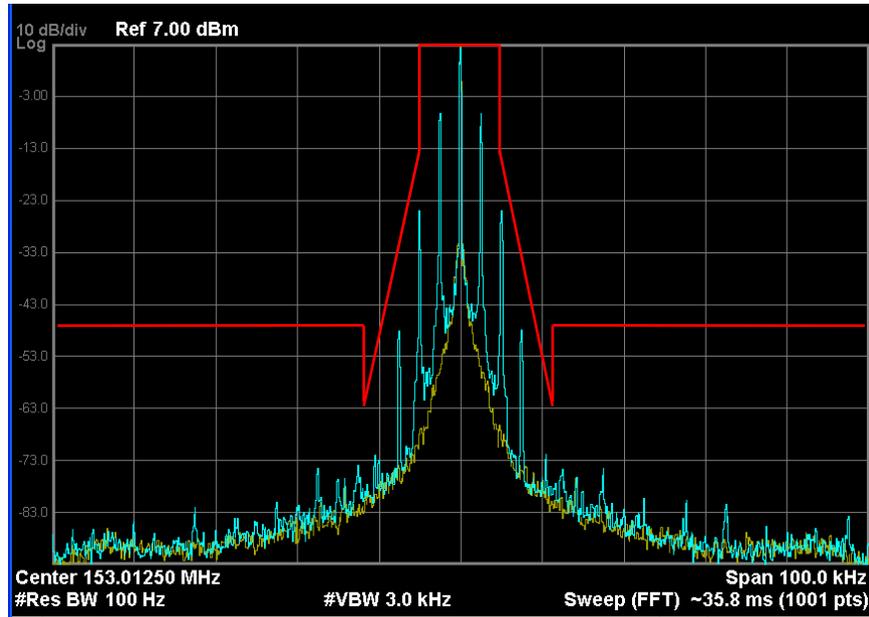


Figure 6E-1: 153.0125MHz, Channel Spacing:12.5 kHz, Analog Voice: 11K0F3E, Mask D

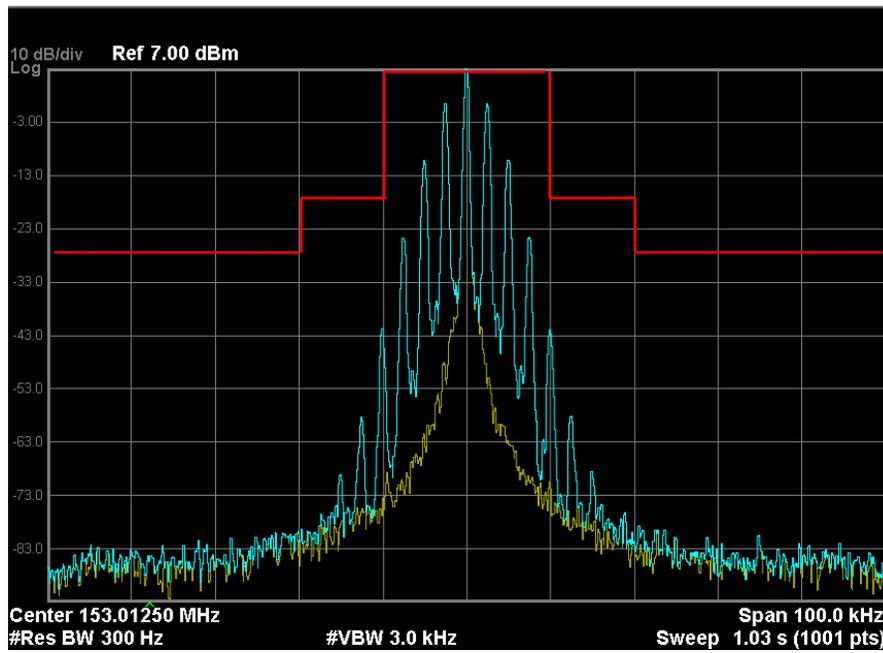


Figure 6E-2: 153.0125MHz, Channel Spacing: 25 kHz, Analog Voice: 16K0F3E, Mask B (Not for FCC review)

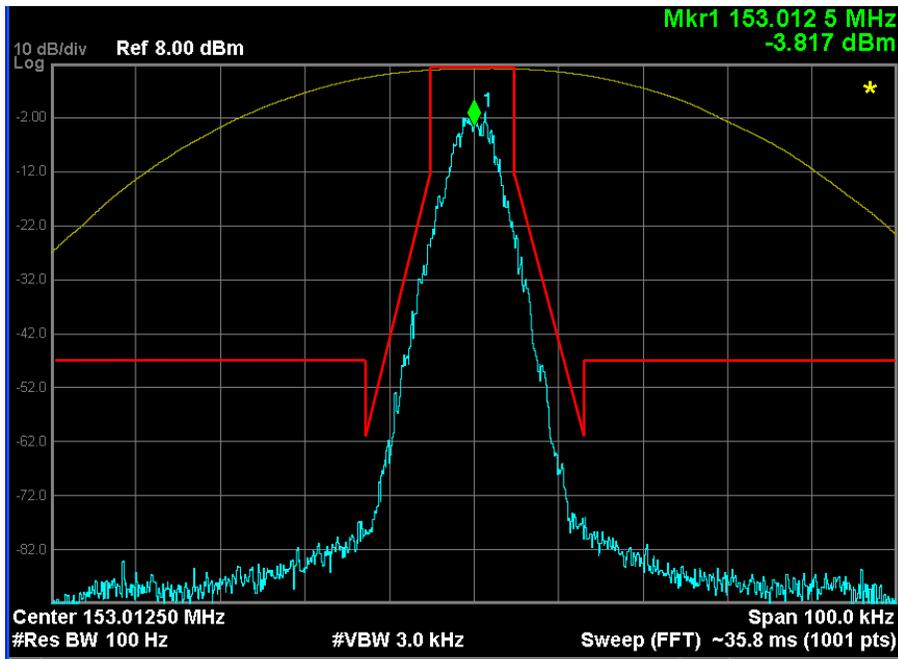


Figure 6E-3: 153.0125MHz, Channel Spacing: 12.5 kHz, Digital Voice: 8K10F1E Mask D

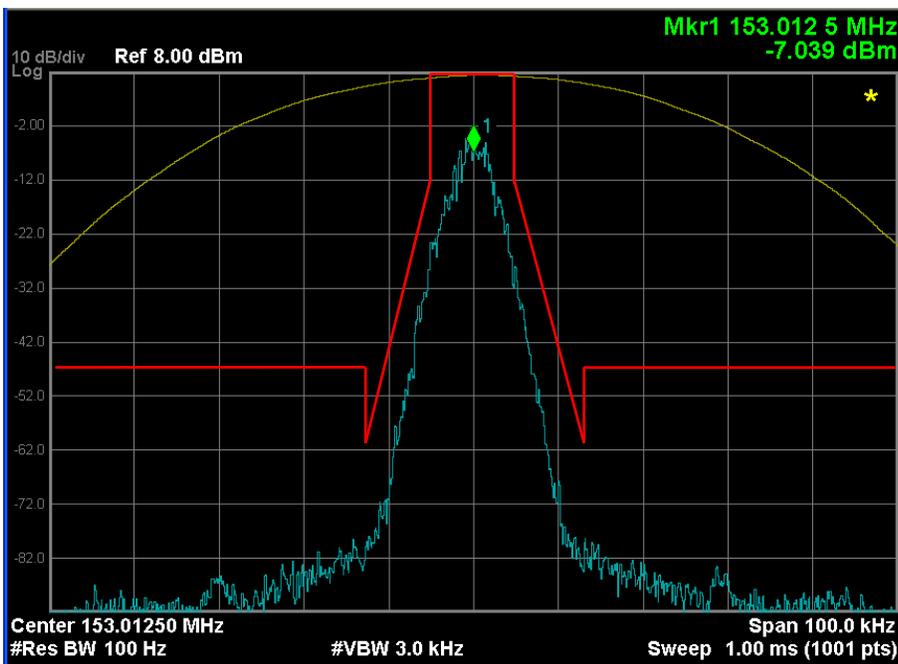


Figure 6E-4: 153.0125MHz, Channel Spacing: 12.5 kHz, Digital Data: 8K10F1D Mask D

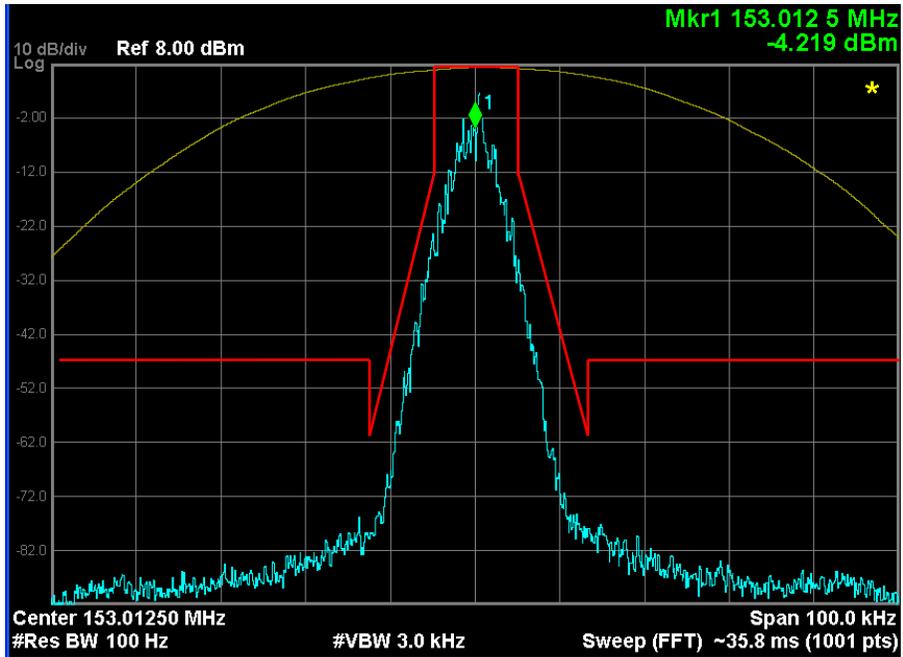


Figure 6E-5: 153.0125MHz, Channel Spacing: 12.5 kHz, Digital TDMA: 8K10F1W Mask D

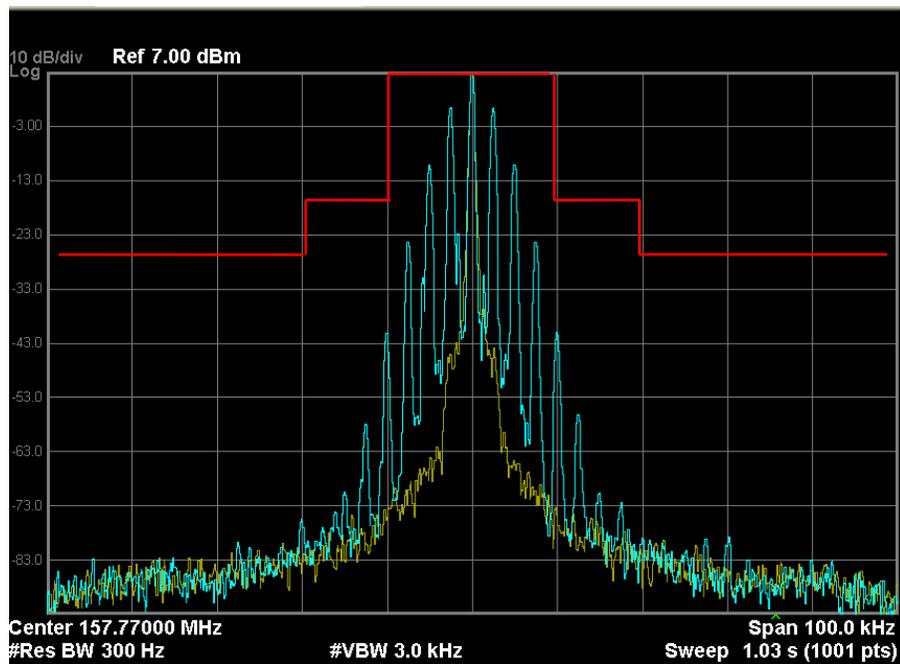


Figure 6E-6: 157.77MHz, Channel Spacing: 25 kHz, Analog Voice: 16K0F3E, Mask B (Part 80)

EXHIBIT 6F

Transmitter Radiated Spurious Emissions

Tx Power: 5.9 Watts

138.0125 MHz

Channel Spacing 12.5kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
276.0250	-20	*	*
414.0375	-20	*	*
552.0500	-20	*	*
690.0625	-20	*	*
828.0750	-20	*	*
966.0875	-20	*	*
1104.1000	-20	*	*
1242.1125	-20	*	*
1380.1250	-20	*	*

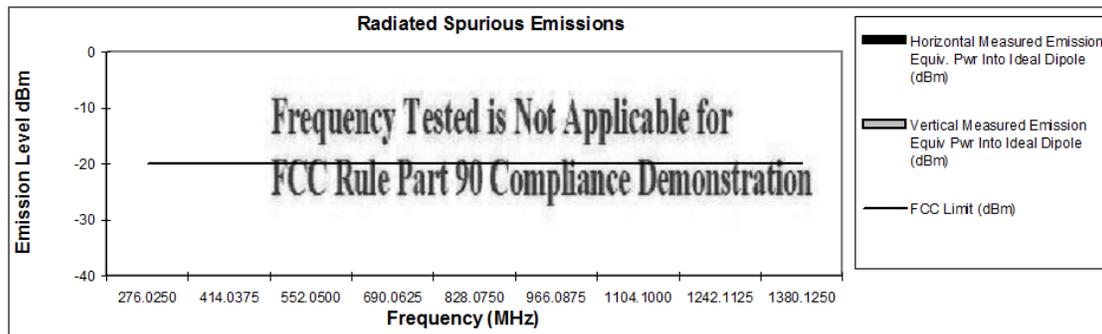


Figure 6F-1: 5.90W 138.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC review)

Tx Power: 5.9 Watts

153.0125 MHz

Channel Spacing 12.5kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
306.0250	-20	*	*
459.0375	-20	*	*
612.0500	-20	*	*
765.0625	-20	*	*
918.0750	-20	*	*
1071.0875	-20	*	*
1224.1000	-20	*	*
1377.1125	-20	*	*
1530.1250	-20	*	*

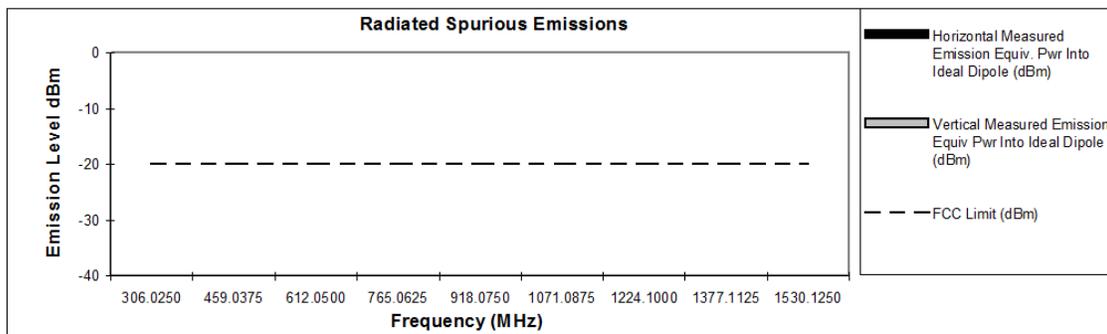


Figure 6F-2: 5.90W 153.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 5.9 Watts

162.0125 MHz

Channel Spacing 12.5kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
324.0250	-20	*	*
486.0375	-20	*	*
648.0500	-20	*	*
810.0625	-20	*	*
972.0750	-20	*	*
1134.0875	-20	*	*
1296.1000	-20	*	*
1458.1125	-20	*	*
1620.1250	-20	*	*

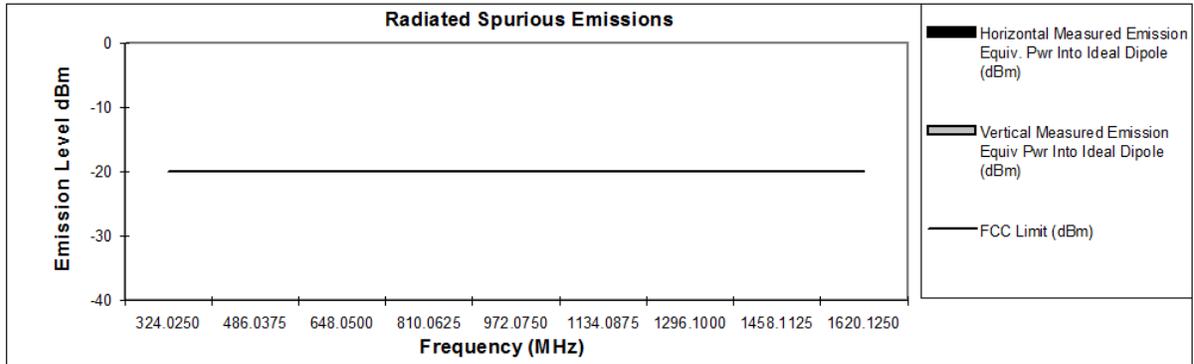


Figure 6F-3: 5.90W 162.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 5.9 Watts

173.0125 MHz

Channel Spacing 12.5kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
346.0250	-20	*	*
519.0375	-20	*	*
692.0500	-20	*	*
865.0625	-20	*	*
1038.0750	-20	*	*
1211.0875	-20	*	*
1384.1000	-20	*	*
1557.1125	-20	*	*
1730.1250	-20	*	*

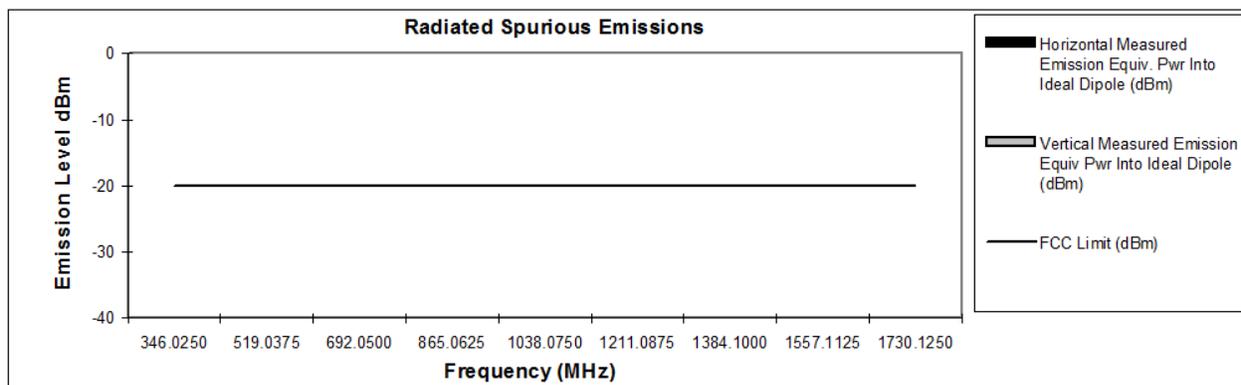


Figure 6F-4: 5.90W 173.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 5.9 Watts

138.0125 MHz

Channel Spacing 25kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
276.0250	-13	*	*
414.0375	-13	*	*
552.0500	-13	*	*
690.0625	-13	*	*
828.0750	-13	*	*
966.0875	-13	*	*
1104.1000	-13	*	*
1242.1125	-13	*	*
1380.1250	-13	*	*

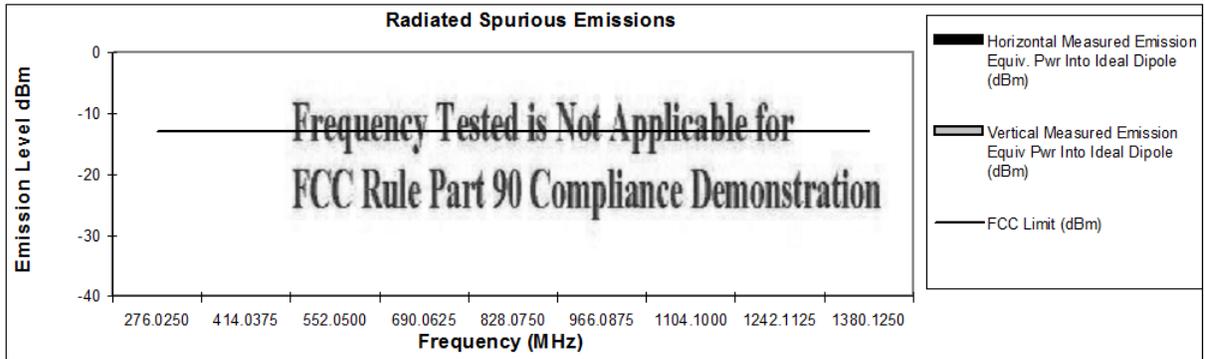


Figure 6F-5: 5.90W 138.0125 MHz, 25 kHz Channel Spacing (Not for FCC review)

Tx Power: 5.9 Watts

153.0125 MHz

Channel Spacing 25kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
306.0250	-13	*	*
459.0375	-13	*	*
612.0500	-13	*	*
765.0625	-13	*	*
918.0750	-13	*	*
1071.0875	-13	*	*
1224.1000	-13	*	*
1377.1125	-13	*	*
1530.1250	-13	*	*

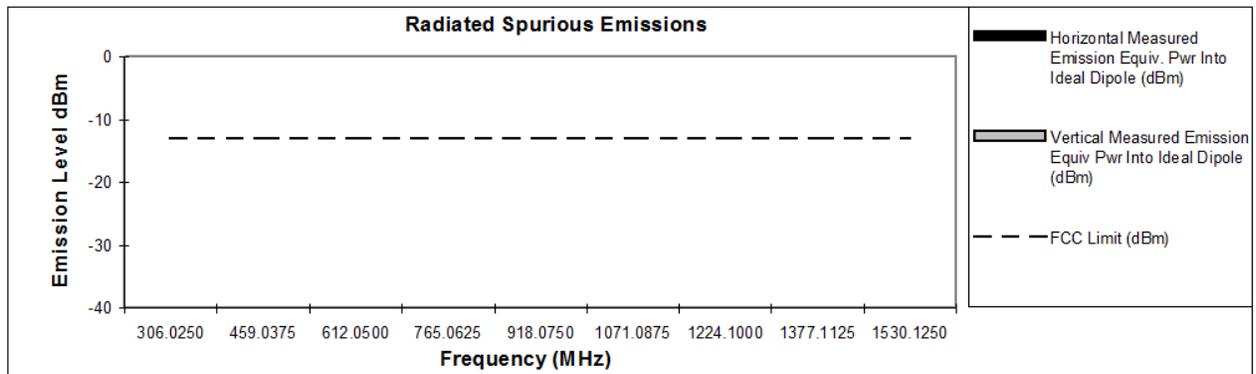


Figure 6F-6: 5.90W 153.0125 MHz, 25 kHz Channel Spacing (Not for FCC review)

Tx Power: 5.9 Watts

162.0125 MHz

Channel Spacing 25kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
324.0250	-13	*	*
486.0375	-13	*	*
648.0500	-13	*	*
810.0625	-13	*	*
972.0750	-13	*	*
1134.0875	-13	*	*
1296.1000	-13	*	*
1458.1125	-13	*	*
1620.1250	-13	*	*

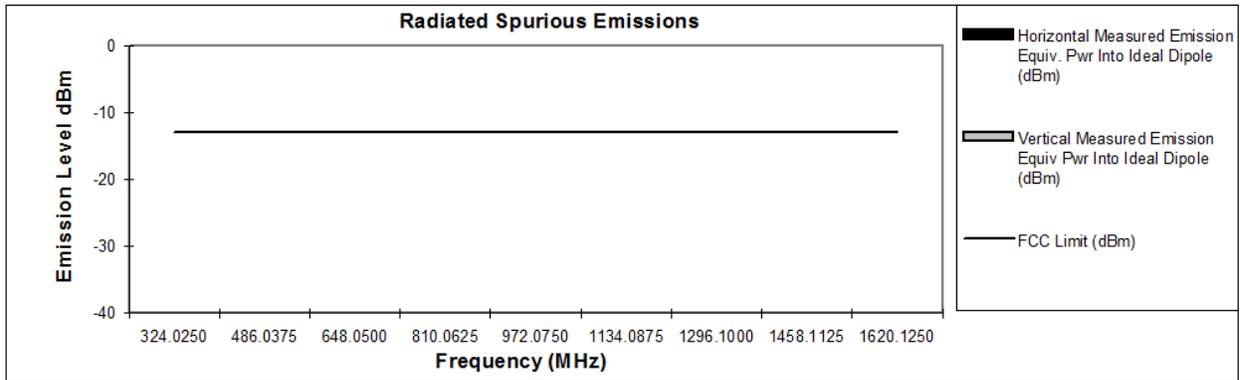


Figure 6F-7: 5.90W 162.0125 MHz, 25 kHz Channel Spacing (Not for FCC review)

Tx Power: 5.9 Watts

173.0125 MHz

Channel Spacing 25kHz | S/N 536TQR0020

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
346.0250	-13	*	*
519.0375	-13	*	*
692.0500	-13	*	*
865.0625	-13	*	*
1038.0750	-13	*	*
1211.0875	-13	*	*
1384.1000	-13	*	*
1557.1125	-13	*	*
1730.1250	-13	*	*

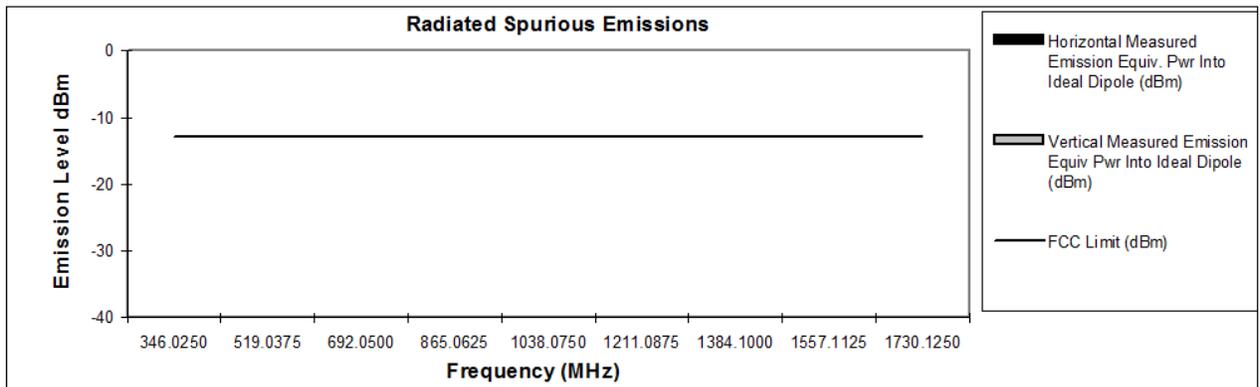


Figure 6F-8: 5.90W 173.0125 MHz, 25 kHz Channel Spacing (Not for FCC review)

EXHIBIT 6G - Conducted Spurious Emissions

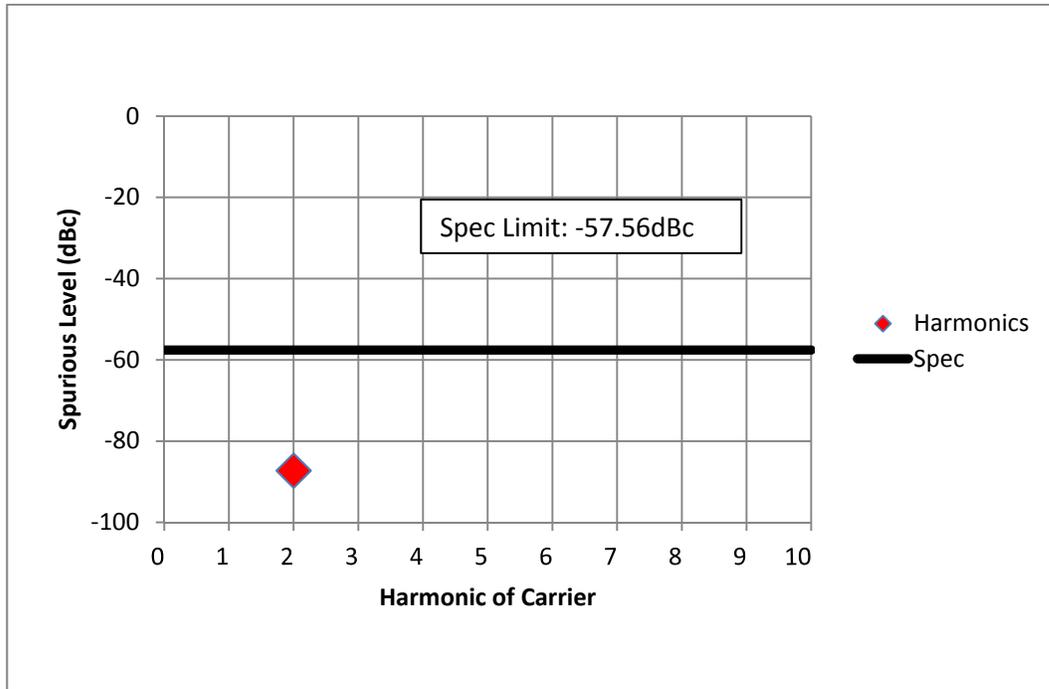


Figure 6G-1: 5.90W 138.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC review)

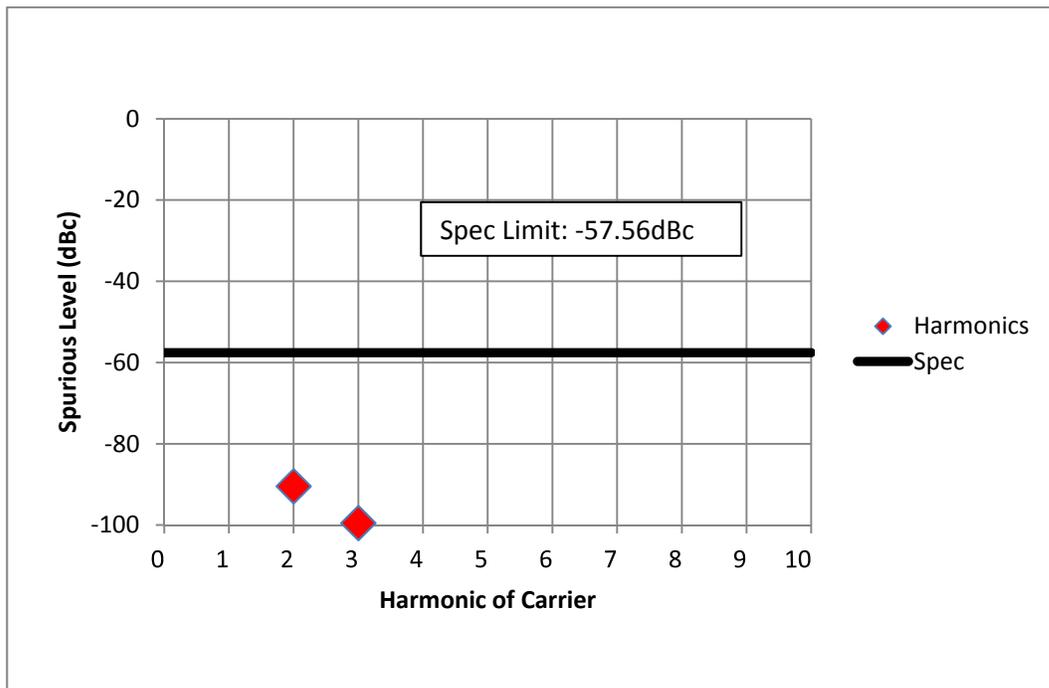


Figure 6G-2: 5.90W 153.0125 MHz, 12.5 kHz Channel Spacing

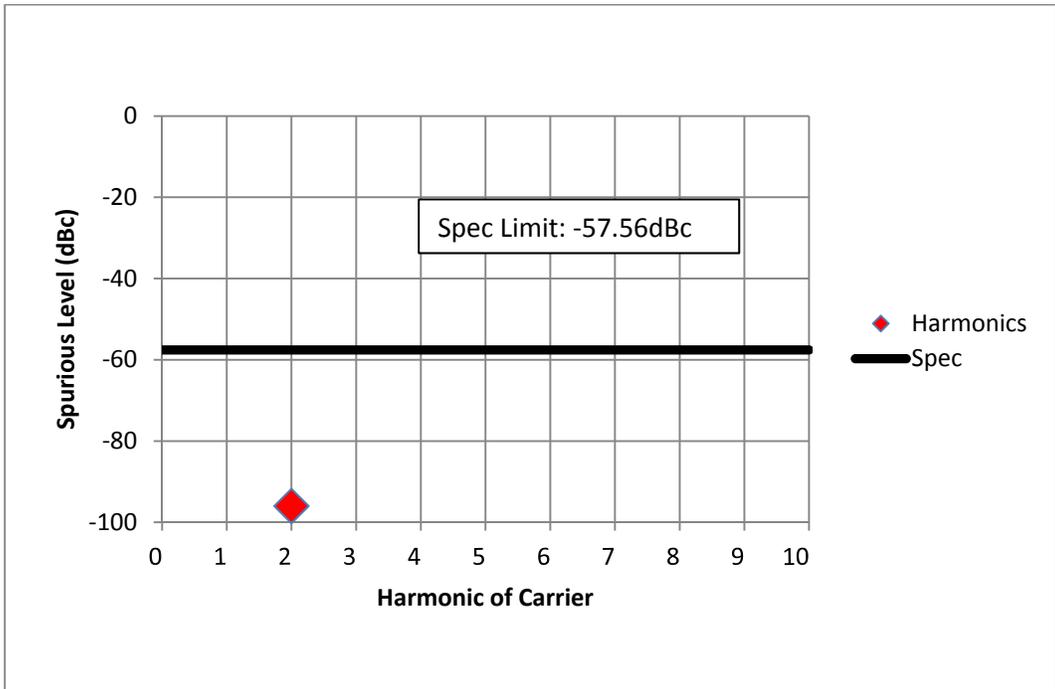


Figure 6G-3: 5.90W 162.0125 MHz, 12.5 kHz Channel Spacing

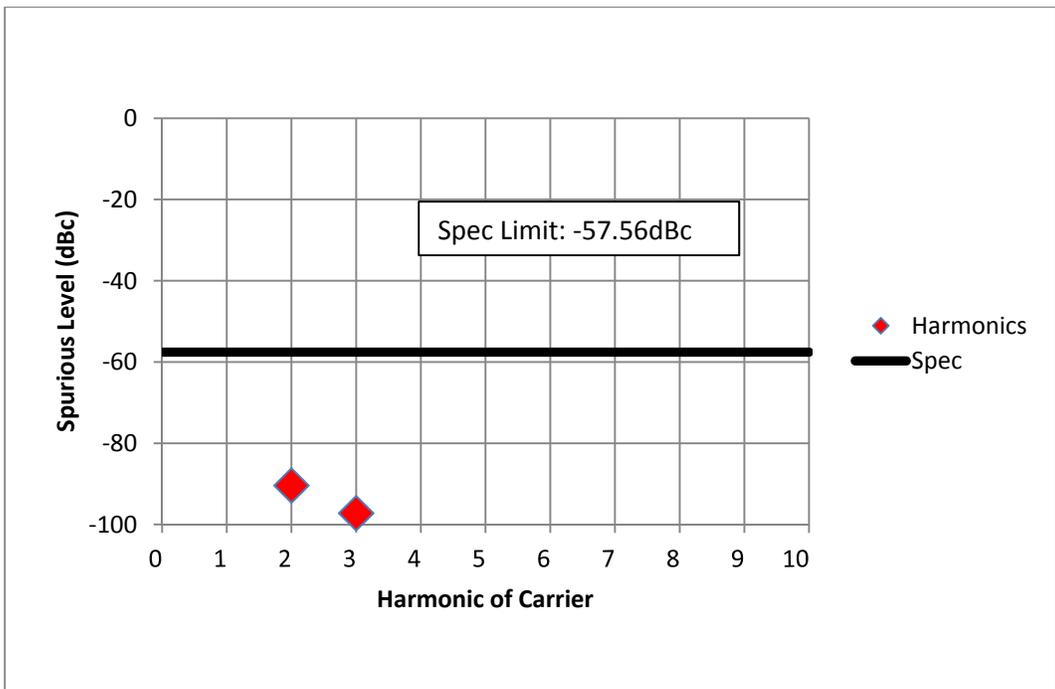


Figure 6G-4: 5.90W 173.0125 MHz, 12.5 kHz Channel Spacing

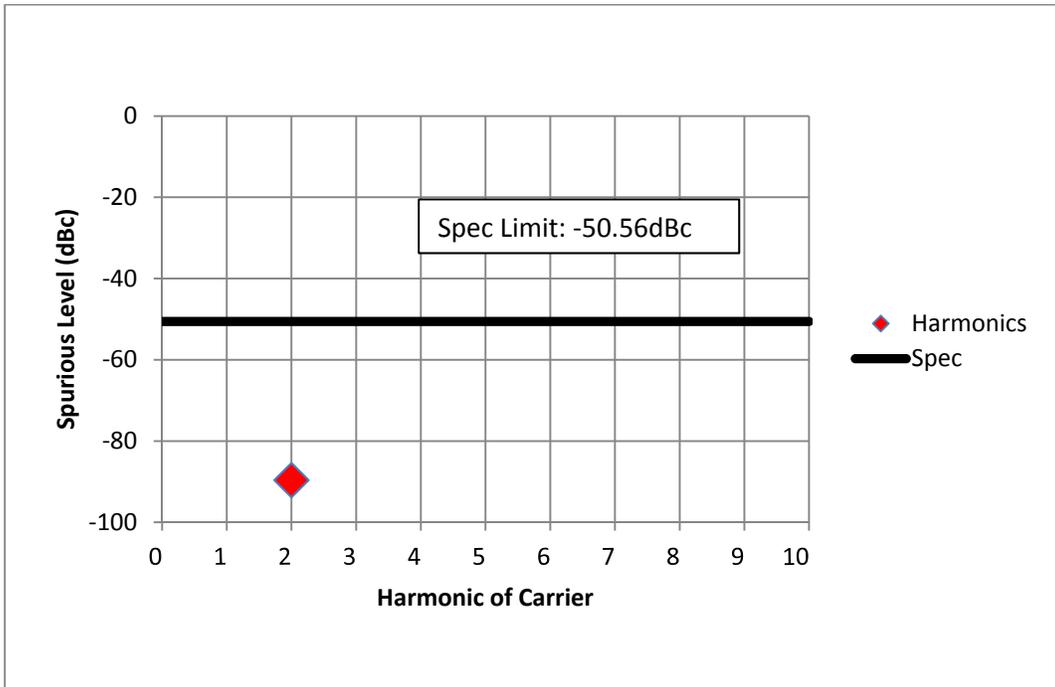


Figure 6G-5: 5.90W 138.0125 MHz, 25 kHz Channel Spacing (Not for FCC review)

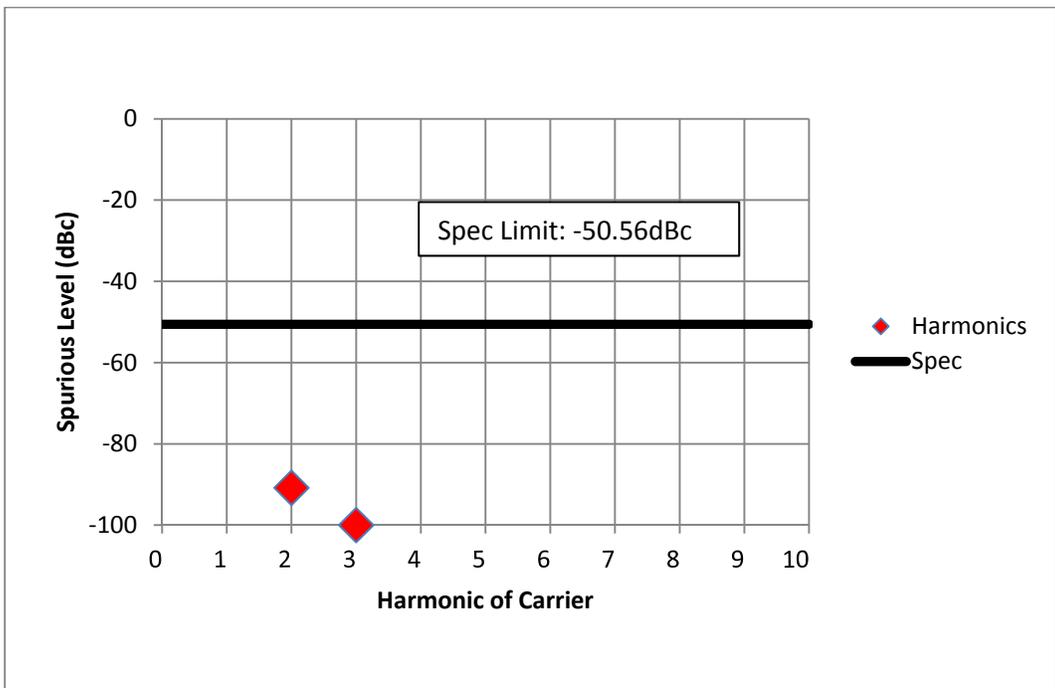


Figure 6G-6: 5.90W 153.0125 MHz, 25 kHz Channel Spacing

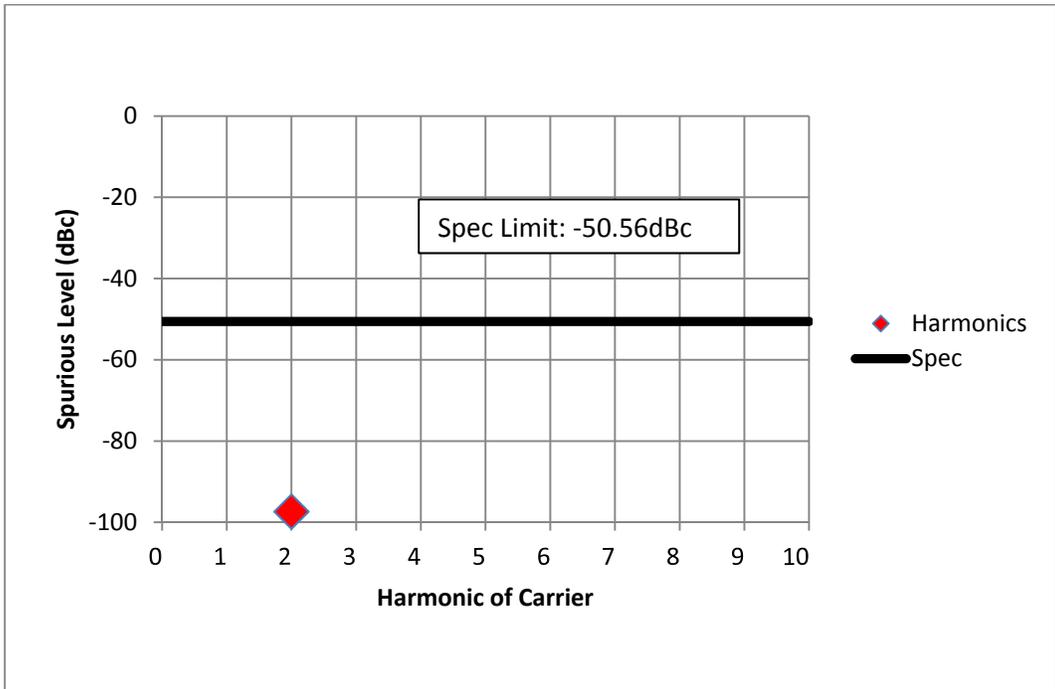


Figure 6G-7: 5.90W 162.0125 MHz, 25 kHz Channel Spacing

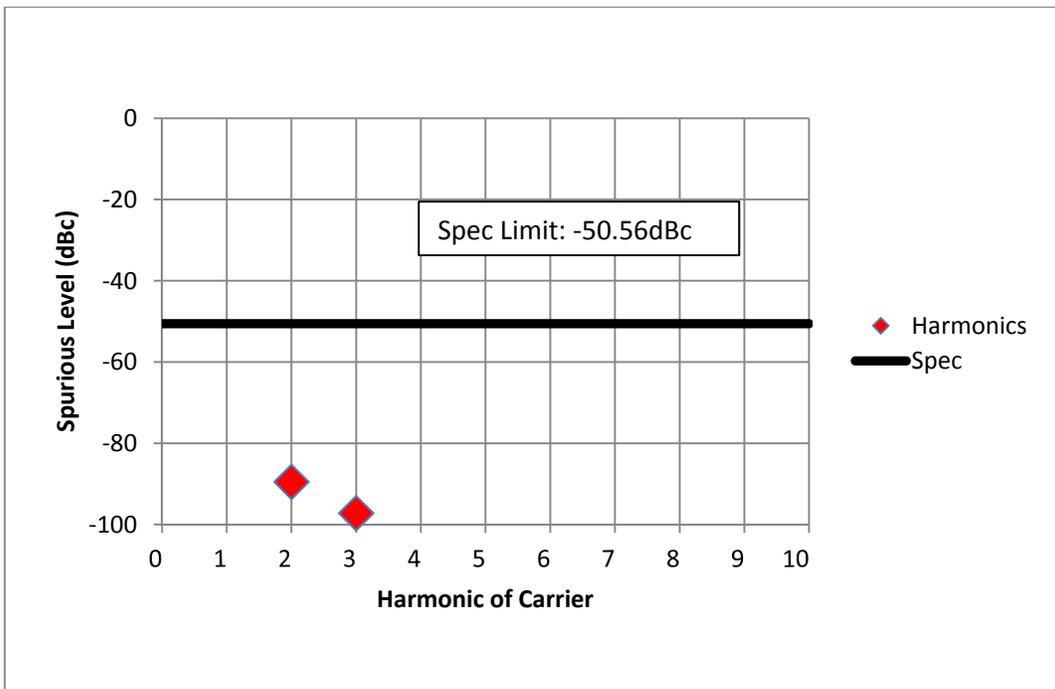


Figure 6G-8: 5.90W 173.0125 MHz, 25 kHz Channel Spacing

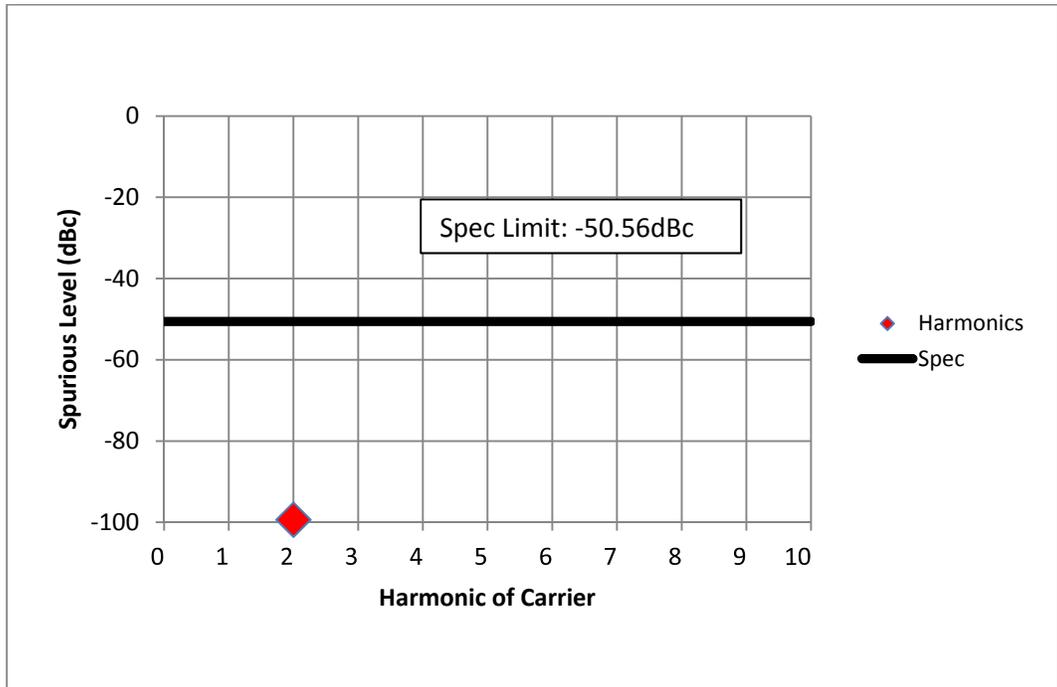
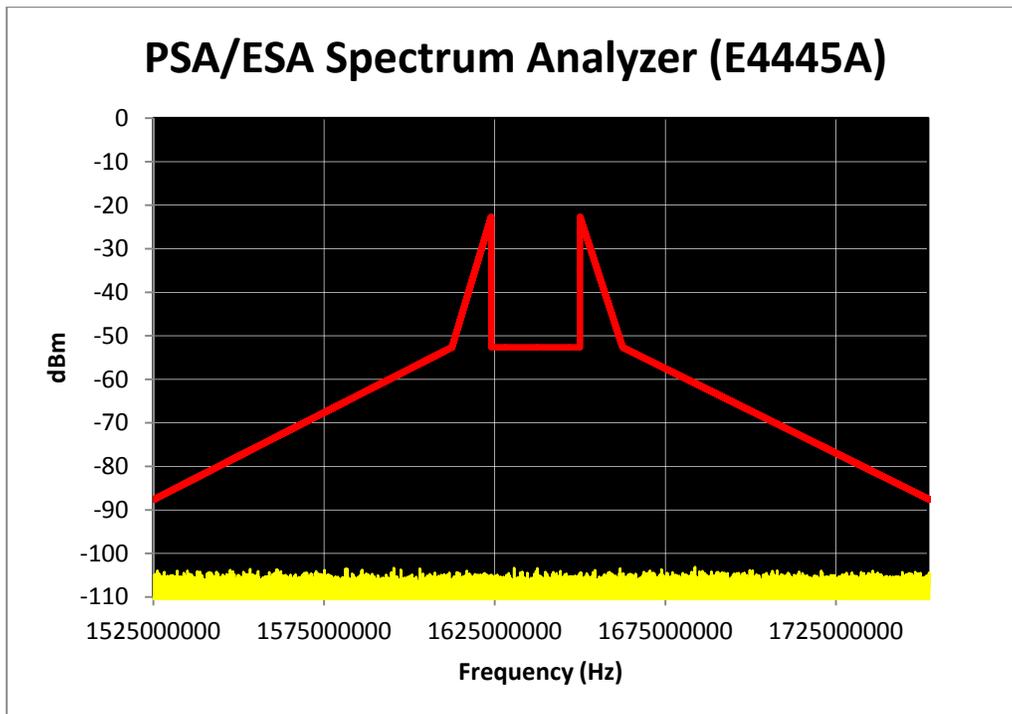


Figure 6G-9: 5.90W 157.77 MHz, 25 kHz Channel Spacing (Part 80)



Emission of 4KHz Band		
Frequency (MHz)	1525.0	1725.5
Power (dBm)	-103.75	-105.24

Figure 6G-10: 5.9 W, 157.7700 MHz, 25 kHz Channel Spacing (Part 80.211 (c))

EXHIBIT 6H

Frequency Stability (Volt/Temp)

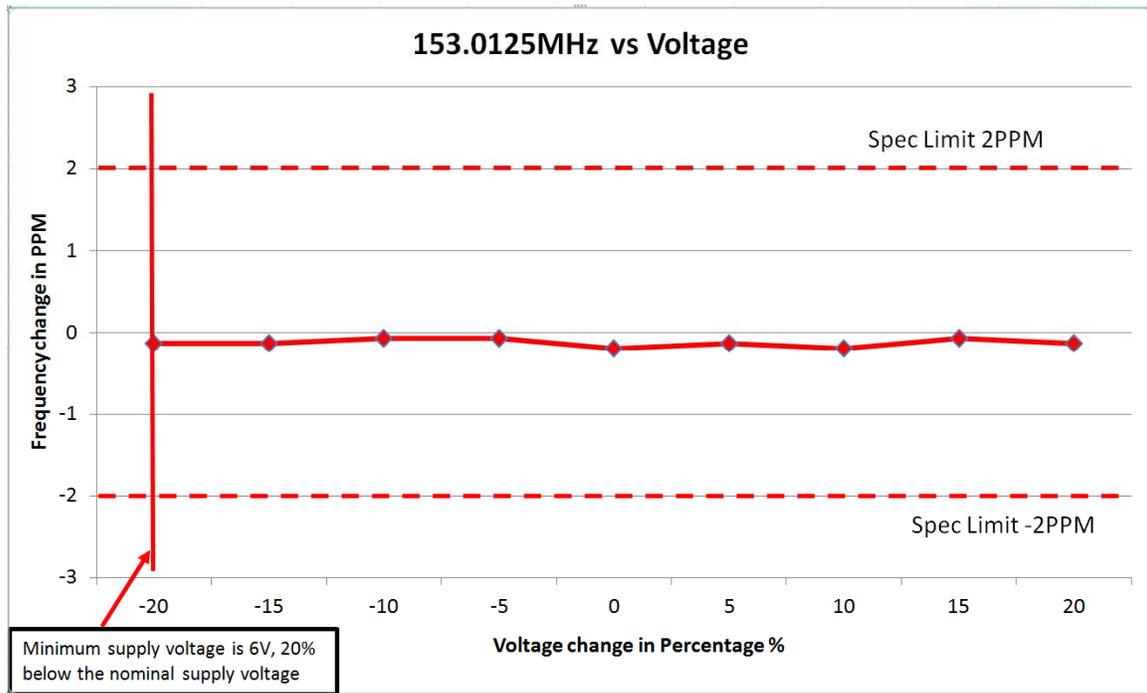


Figure 6H-1: 153.0125MHz, 2.0 ppm Frequency Stability vs. Supply Voltage

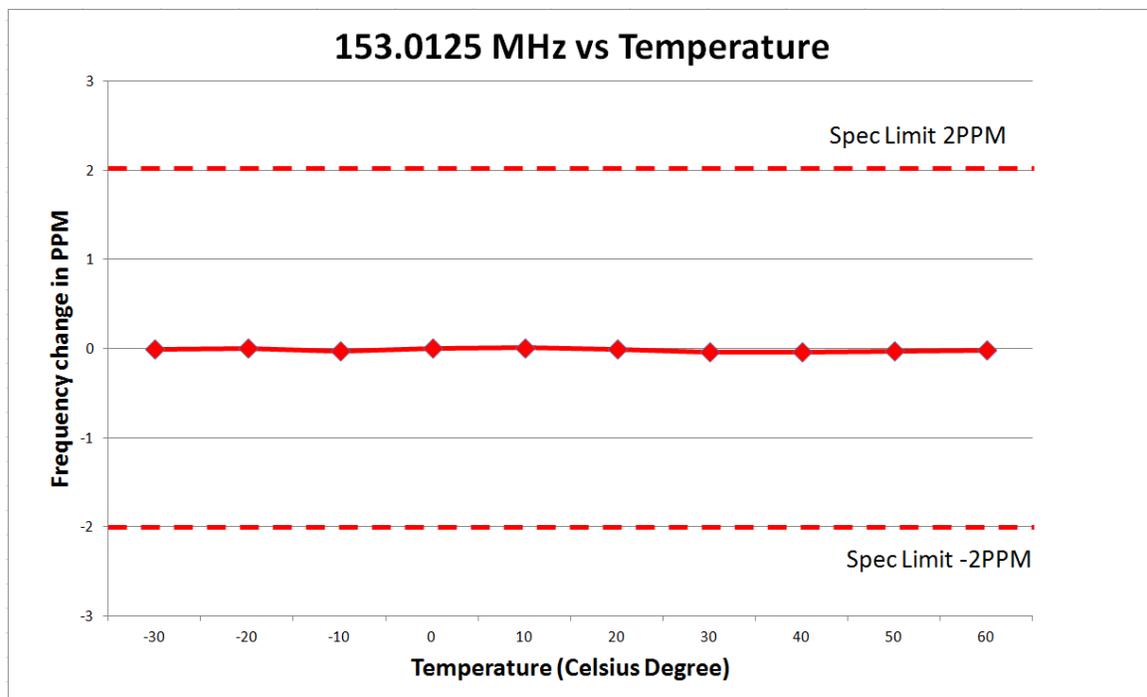


Figure 6H-2: 153.0125MHz, 2.0 ppm Frequency Stability vs. Temperature

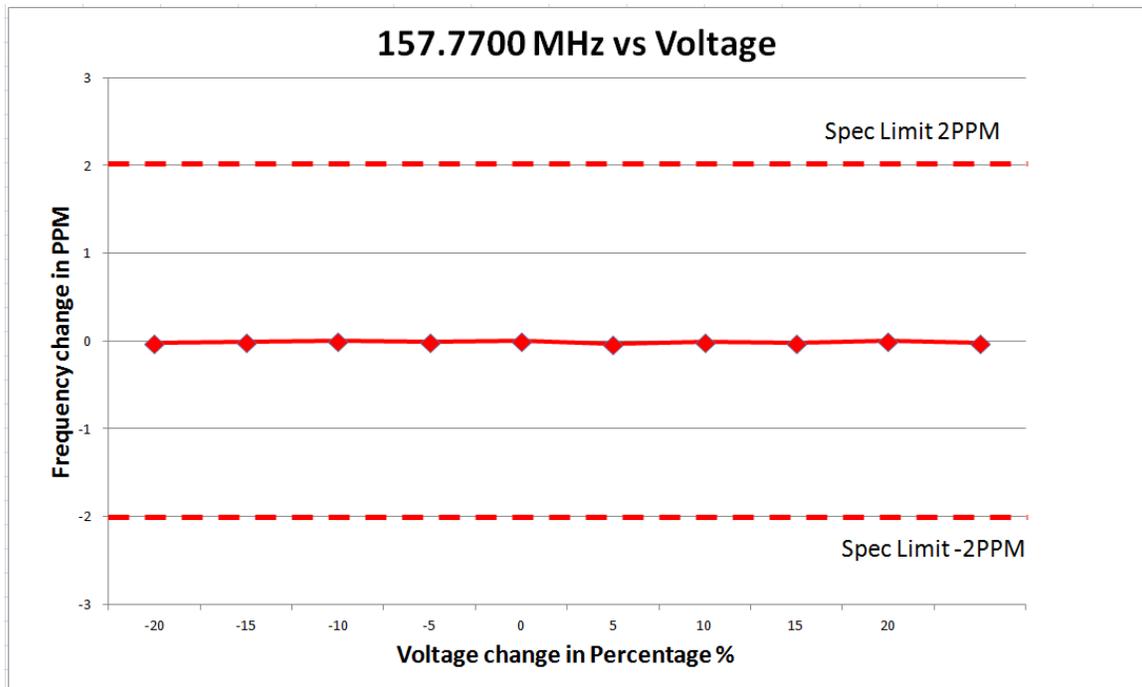


Figure 6H-3: 157.77MHz, 2.0 ppm Frequency Stability vs. Supply Voltage (Part 80)

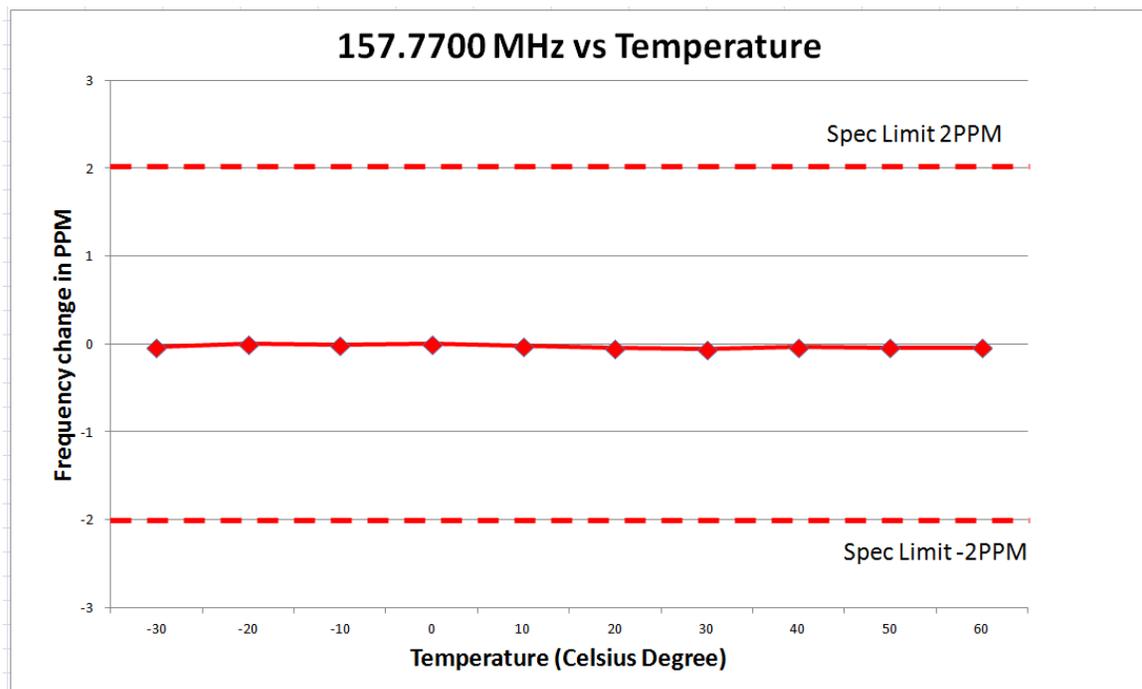


Figure 6H-4: 157.77MHz, 2.0 ppm Frequency Stability vs. Temperature (Part 80)

EXHIBIT 6I

Transient Frequency Behavior

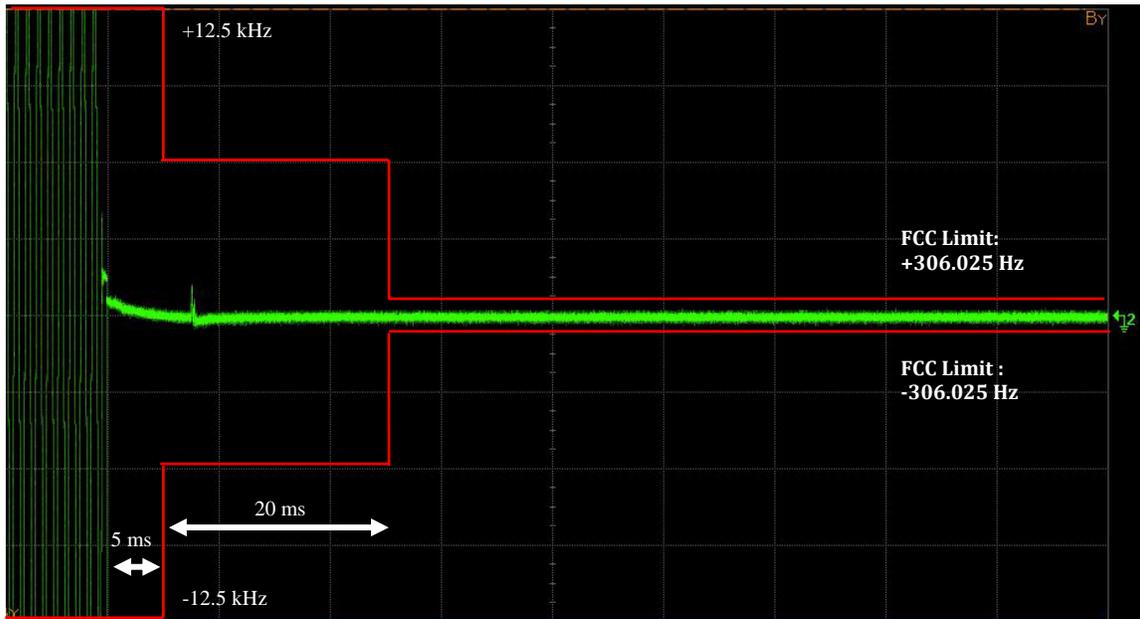


Figure 6I-1: TX 153.0125 MHz - 12.5 KHz Channel Spacing – Transmitter On

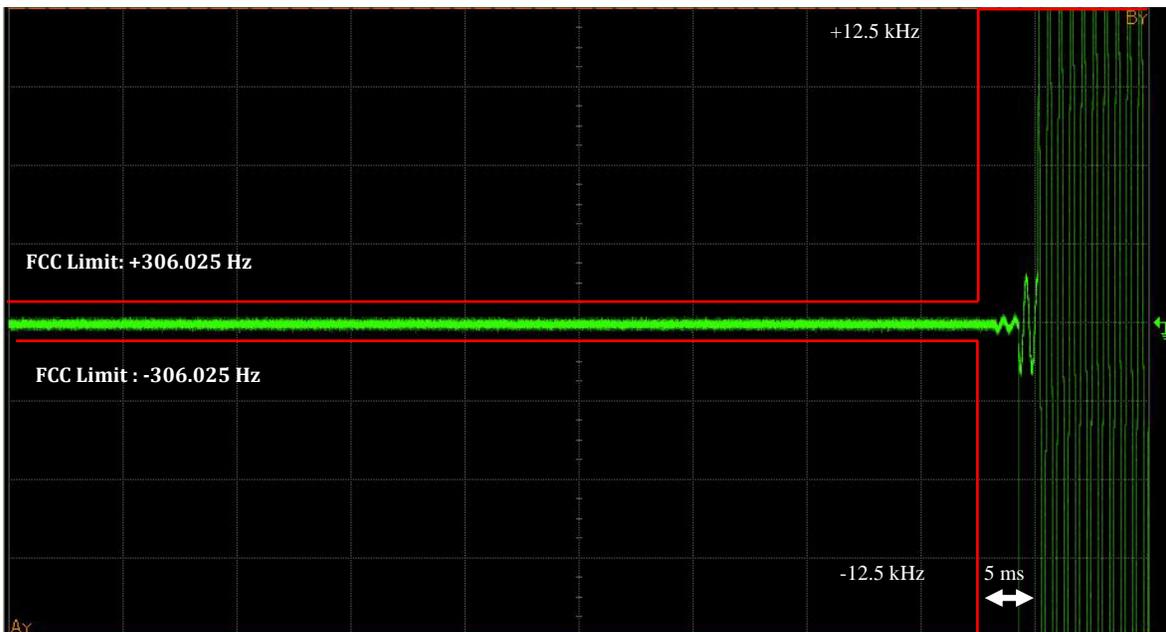


Figure 6I-2: TX 153.0125 MHz - 12.5 KHz Channel Spacing – Transmitter Off

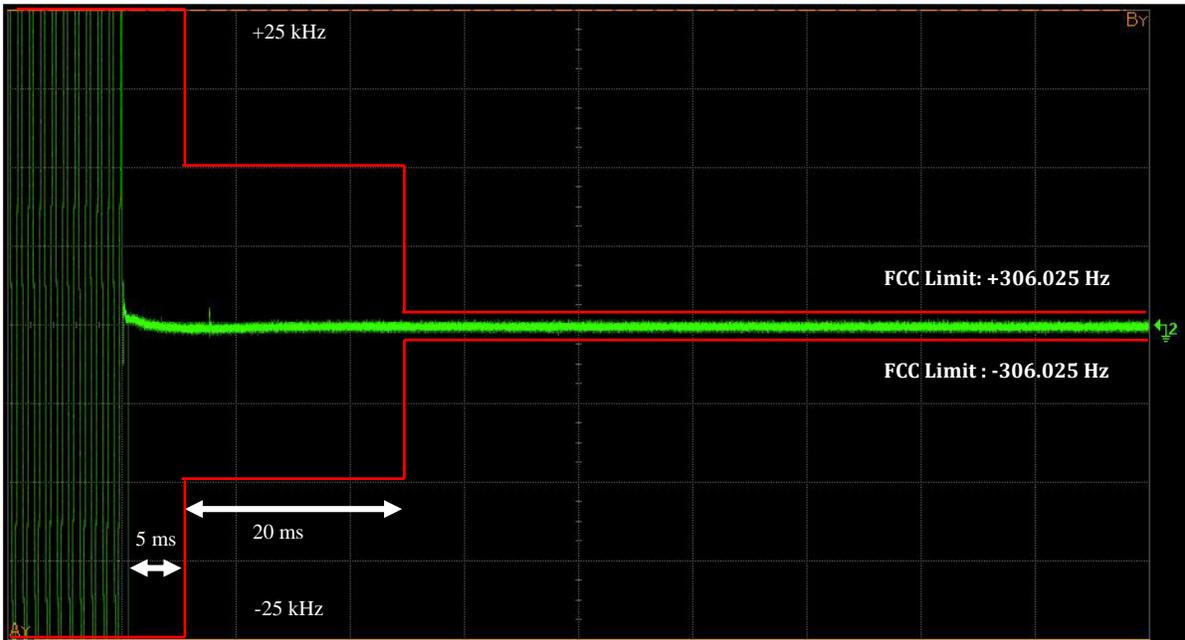


Figure 6I -3: TX 153.0125 MHz – 25 KHz Channel Spacing – Transmitter On (Not for FCC review)



Figure 6I-4: TX 153.0125 MHz – 25 KHz Channel Spacing – Transmitter Off (Not for FCC review)